Abstract

In order to produce a planar antenna array in a radar sensor with a multitude of microstrip feeder lines (18) and a multitude of coupling slots (20) for emitting microwave energy into open space, which achieves a favorable antenna efficiency when embodied in a planar design using LTCC technology, the invention proposes embodying the feeder lines (18) and the coupling slots (20) in a multilayer ceramic substrate (10) produced by means of the LTCC thick layer technique with an upper and a lower grounded layer (12), as well as enclosing the feeder lines (18) and the coupling slots (20) with plated-through contacts (14) from the upper grounded layer to the lower one.

Fig. 1